

CC100 Solution 16plus Control Panel



The Solution 16plus Intrusion Control Panel offers an extensive feature listing including integrated proximity, numerous wire free options, high speed windows programming software and the simplest user/installer interface on the market today.

The Solution 16plus is designed and manufactured in Australia to meet local and international requirements.

Functions

Graphic User Interface (Code Pads)

The Graphic User Interface incorporates a text driven menu system very similar to that found on many mobile phones.

Colour coded, illuminated keys allow for easy identification and operation in all ambient light conditions and provide a positive feel to the user. Red and green indicators provide easy identification of Armed and Disarmed modes and the in-built sounder provides audible feedback via polyphonic like signalling tones during system operation. The sounder emits a siren sound during alarm condition providing early warning and the volume level is individually programmable for each code pad connected to the system.

- ▶ **16 On-board Zones (wired or wireless)**
- ▶ **48 Users**
- ▶ **Partitionable to 4 Areas**
- ▶ **Proximity Code Pad**
- ▶ **Flexible Reporting Options**
- ▶ **Fully Menu Text Programmable**
- ▶ **Programmable via Solutionlink™ Software (Remote/Direct)**
- ▶ **Telephone Line Fail Monitor**

An enhanced version of the Graphic Code Pad incorporates a built-in proximity reader allowing users to simply present their token to the keypad to arm / disarm and / or unlock a door. Children and the elderly will find this feature extremely easy to use as no PIN codes are required for operation.

16 On-board Zones (wired or wireless)

The Solution 16plus supports up to 16 wired zones using a split end of line resistor configuration or dual end of line configuration with the use of a zone expanders. Wireless zones are supported with the inclusion of a serial radio receiver. Zone programming determines the panel's response to open / short and tamper conditions on the zone loop. Zones may be programmed individually to monitor all types of security alarms, fire alarms and supervision devices.

The panel supports multi-vendor wireless devices allowing you to select the most appropriate products for each installation.

Sensor Watch

Sensor Watch monitors each zones activity while its corresponding area is disarmed. If the zone fails to operate at least once during the sensor watch programmed time period a system trouble will be initiated.

Chime Mode

Chime mode allows monitoring a zone or group of zones by sounding the code pad buzzer or activating a programmable output. This feature is ideal to monitor business entry doors for customer entry during business hours.

Separate Tamper Inputs

Both the Solution 16plus Control Panel and all panel modules feature a separate tamper input making remote locating devices in a secure enclosure easy.

Walk test

Enables a user to test all zones within an area at the same time. When the walk test feature is activated, the code pad will display a list of areas available to walk test. Once the area to test is selected all zones within the area will be displayed. The user then walks the area and zones successfully tested will be removed from display leaving only those that failed to be activated on the code pad screen.

Partitioning up to 4 Areas

The control panel supports up to 4 separate areas with no restriction on the number of individual zones that can belong in an area. You can assign all zones to a single area, or you can assign each zone to a combination of different areas. You can arm and disarm the control panel by area, alternatively, you can arm and disarm several areas at the same time.

Multiple areas can be linked to a shared area which is automatically controlled (hallway or lobby). Area arming may be conditional on other areas (master or associate).

Programmable Outputs

The Solution 16plus Control panel supports 4 on board outputs and is expandable to 16 outputs in total. All outputs are protected and will shut down individually under an overload condition. Outputs conditions are displayed on the code pad and may be reported externally if required. Outputs may be triggered via an event and or manually, and may be programmed for polarity, pulsing or one shot.

Proximity Control

Proximity technology from Bosch provides an affordable and effective solution with up to 8 proximity code pads supported on the control panel. Use of proximity code pads reduces false alarms caused by user error.

Schedules

Up to 8 schedules may be implemented. Each schedule has a start and stop time as well as day of the week and holidays. Schedules may be used to automatically arm / disarm the system at specific times or control outputs. They may also control the ability for users to gain access at different times of the day / week.

48 Users with flexible credentials and devices

Up to 48 individual users may be included in the system. Each user can be given a unique PIN code, RF key fob and Proximity token if required. The solution 16plus supports variable length PIN codes up to 8 digits.

Variable PIN configuration

Users can be given free choice of PIN length or alternately an exact PIN length requirement may be enforced for higher security applications. PIN codes can be set to expire at a pre-programmed time per user.

Flexible Communications Options

CID, SIA, DOMESTIC and SMS Text Reporting formats are all standard out of the box and the dual reporting feature allows you to select which reports are sent to which route and in what format. Open / Close reporting can be selected individually for each user and area on the panel allowing the owner to monitor cleaner access, children returning home from school or access to a particular restricted area all via their mobile phone.

Delay Trouble Beeps

Setting this option will prevent any system trouble events from sounding the code pad speaker between the hours of 10pm until 7am. During this time, any new trouble event will be shown in the code pad display. If trouble events are still in effect after 7am the code pad will begin to sound the trouble alert to notify the user. This function is ideal for all residential applications.

Event Log

The control panel stores up to 256 events from all areas. All events are recorded in the log regardless of the reporting setting. The event log may be viewed via the code pad, serial printer or via a direct or remote connection from the Solution Link programming software.

Certifications and Approvals

C-tick Supplier Code:	N12138
New Zealand Telepermit:	PTC 211 / 06 / 009

Installation/Configuration Notes

Code pads

Any combination of CP100W, CP101W, CP110B or CP111B may be installed for up to 8 code pads in total.

Input Expansion

Wired or wireless zones may be configured in any quantity per area up to 16 zones. Input zone expansion options are:
Using CM104 zone expanders

	Single EOL	Alarm + Tamper	Split EOL
Solution 16plus	1 to 8	1 to 8	1 to 16
CM104 #1	9 to 16	9 to 16	n/a
Total Zones	16	16	16

Output Expansion and External readers

An additional 1 x CM110 output expander may be included in the system to achieve a total of 8 outputs.

Output and proximity reader mapping

	Output Number
Solution 16plus	1 to 4
CM110 #1	5 to 8

Proximity reader Capacity

A total of 8 proximity enabled code pads may be included on the system.

Power supply

An additional 1 x CM120 1Amp LAN Power supply module may be included to provide LAN voltage regeneration and power to other modules.

Wireless Receivers - Bosch

One Bosch DSRF receiver RF3212E may be connected directly to the receiver / key switch input. Up to 3 x wireless receivers may be connected using the CM195.

Wireless Receivers – non Bosch

Support for non Bosch wireless equipment is also enabled via inclusion of the CM195. Up to 3 receivers of the same make and model may be installed.

Technical Specifications

Power Requirements

Current Draw:	22 VA min 3 wire plug pack adapter or transformer
Primary:	240 VAC / 18 VAC at 1.3A supplied by TF008 Plug Pack
Secondary:	12 VDC / 6 Ah supplied by a rechargeable sealed lead/acid battery

Environmental Considerations

Relative Humidity:	5 to 85 % at 30 °C non-condensing
Temperature:	0 °C to 55 °C

Cable Considerations

LAN length	305m using 14/020 0.8m m ² (22 AWG) cable
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Ordering Information

CC100 Solution 16plus Control Panel Includes control panel and enclosure	CC100
CC100P Solution 16plus Control Panel	CC100P
Accessories	
Standard Graphic Code Pad - White	CP100W
Standard Graphic Code Pad - Black	CP110B
Graphic Code Pad with Proximity - White	CP101W
Graphic Code Pad with Proximity - Black	CP111B
CM104 8 to 16 Zone Expansion Module	CM104
CM110 Output Expansion Module	CM110
CM120 LAN Power Supply	CM120
CM195 Multi Receiver Interface	CM195
PR100 Proximity Reader	PR100
PR200 Prox Token - Grey	PR200
PR250 Prox Iso Card	PR250
PR260 Prox Clam-Shell Card	PR260
PR201B Prox Token - Black Key	PR201B
Software Options	
SW500 SolutionLink (RAS) Software	SW500

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
38C Jalan Pemimpin
Singapore 577180
Phone: +65 6319 3453
Fax: +65 6319 3499
apr.securitysystems@bosch.com
www.boschsecurity.com

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